

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A variable optical attenuator able to adjust optical attenuation, comprising:

a first optical transmission channel;

a second optical transmission channel;

at least one light reflection surface; and

an actuator, wherein

the at least one light reflection surface reflects light emitted from the first optical transmission channel into the second transmission channel, and

the actuator moves ~~at least a part~~ an entirety of the at least one light reflection surface linearly along a direction orthogonal to a light axis of the light emitted from the first optical transmission channel, relative to at least one of the first optical transmission channel and the second optical transmission channel.

2. (Previously Presented) A variable optical attenuator that attenuates light injected from an optical transmission channel for input and outputs the light into an optical transmission channel for output and that can adjust optical attenuation, wherein

the optical transmission channel for input, the optical transmission channel for output, light reflection surfaces that reflect light emitted from the optical transmission channel for input to the optical transmission channel for output, and an actuator that moves all or part of the light reflection surfaces relatively and straightly to at least one of the optical transmission channel for input or the optical transmission channel for output, and

the actuator moves straightly one of at least part of the light reflection surfaces, and any one of the optical transmission channel for input and the optical transmission channel for output such that an optical axis of the light reflected to the optical transmission channel for emission is displaced with respect to an axis center of the optical transmission channel for emission.

3. (Previously Presented) A variable optical attenuator that attenuates light injected from an optical transmission channel for input and outputs the light into an optical transmission channel for output and that can adjust optical attenuation, wherein

the optical transmission channel for input, the optical transmission channel for output, light reflection surfaces that reflect light emitted from the optical transmission channel for input to the optical transmission channel for output, and an actuator that moves all or part of the light reflection surfaces relatively and straightly to at least one of the optical transmission channel for input or the optical transmission channel for output, and further comprising:

a monitor part that receives light which is emitted from the transmission channel for input but not injected into the optical transmission channel for output.

4. (Original) The variable optical attenuator according to claim 3, wherein an injection lens disposed oppositely to a light injection surface of the optical transmission channel for output and a monitor lens disposed oppositely to a light injection surface of the monitor part are unified.

5. (Original) The variable optical attenuator according to claim 3, which has a function of correcting a position of the light reflection surfaces depending on output from the monitor part.
6. (Original) The variable optical attenuator according to claim 1, wherein the actuator comprises a voice coil motor and a latch mechanism.
7. (Previously Presented) A variable optical attenuator that attenuates light injected from an optical transmission channel for input and outputs the light into an optical transmission channel for output and that can adjust optical attenuation, wherein

the optical transmission channel for input, the optical transmission channel for output, light reflection surfaces that reflect light emitted from the optical transmission channel for input to the optical transmission channel for output, and an actuator that moves all or part of the light reflection surfaces relatively and straightly to at least one of the optical transmission channel for input or the optical transmission channel for output, and further comprising:

a mirror member having the light reflection surfaces that are two surfaces making an angle of 90 degrees, and the actuator that straightly moves the mirror member.
8. (Previously Presented) The variable optical attenuator according to claim 1, further comprising a fiber array that holds the first optical transmission channel and the second optical transmission channel arranged parallel to each other.
9. (Previously Presented) The variable optical attenuator according to claim 1, wherein the at least one light reflection surface is formed from a boundary face between transparent media having different refractive indicia and perfectly reflects light.